

Each Panel shows quantiation of the indicated four RecA peptides (nonphospho, nonphospho oxidized, phospho, phospho-oxidized) in two replicate experiments 0, 1, 4, 7 hours after a CRISPR-induced DSB.

The fragment ions were summed to yield a total abundance which is plotted in the lower right for each replicate. Note that because of the variability of methionine oxidation and the TiO₂ enrichment used for phosphopeptide detection, the absolute abundance of the phospho vs nonphosphopeptides could not be determined, and cannot be directly compared in these experiments. Figure 1 shows the the relative increase of each species (summing oxidized and nonoxidized forms) in comparison to the time 0 value.

RecA: IGVMFGSPETTTGGK

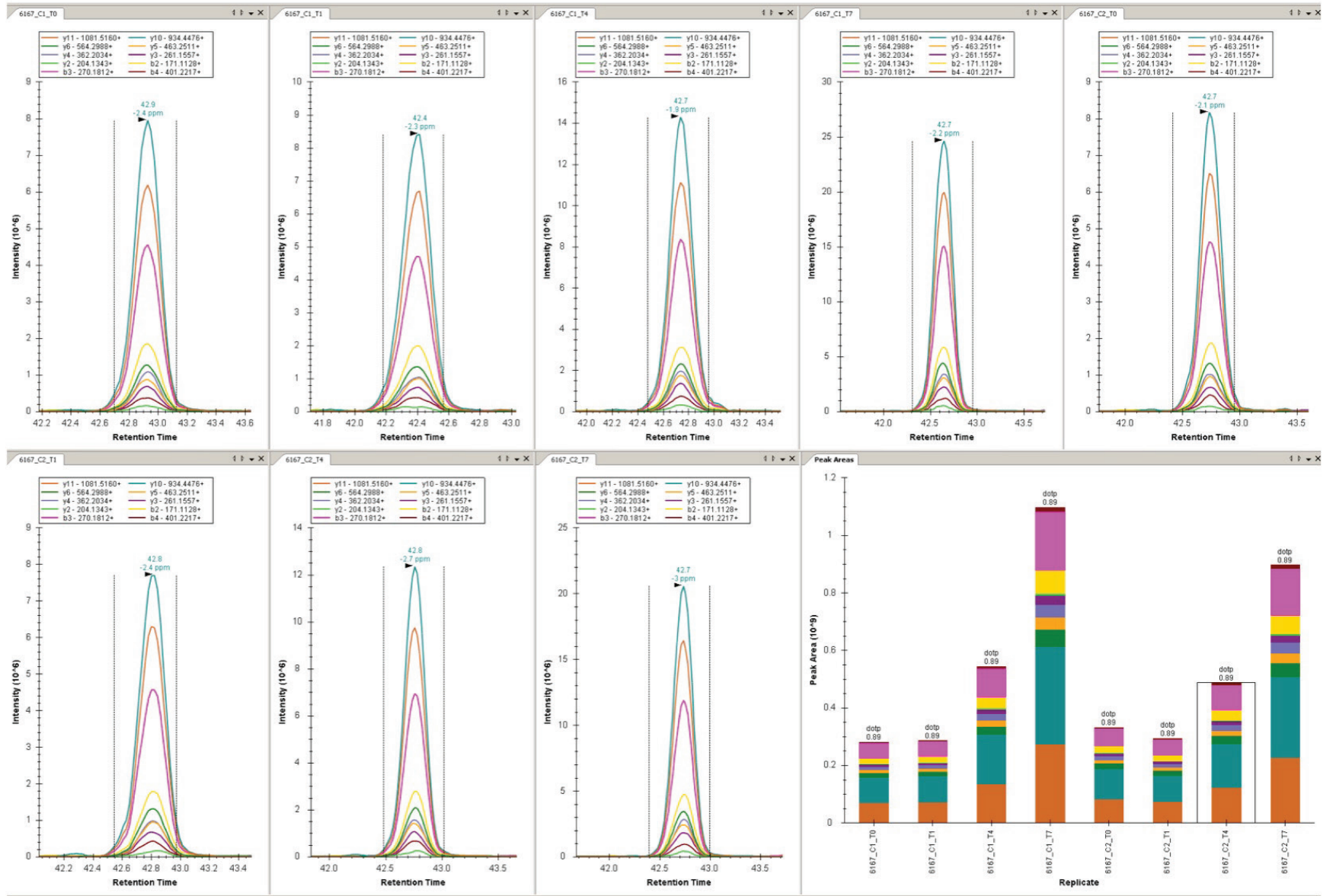
Replicate 1: Time 0

Replicate 1: Time 1hr

Replicate 1: Time 4hr

Replicate 1: Time 7hr

Replicate 2: Time 0



Replicate 2: Time 1hr

Replicate 2: Time 4hr

Replicate 2: Time 7hr

RecA: IGV**M**FGSPETTTGGK (Methionine oxidized)

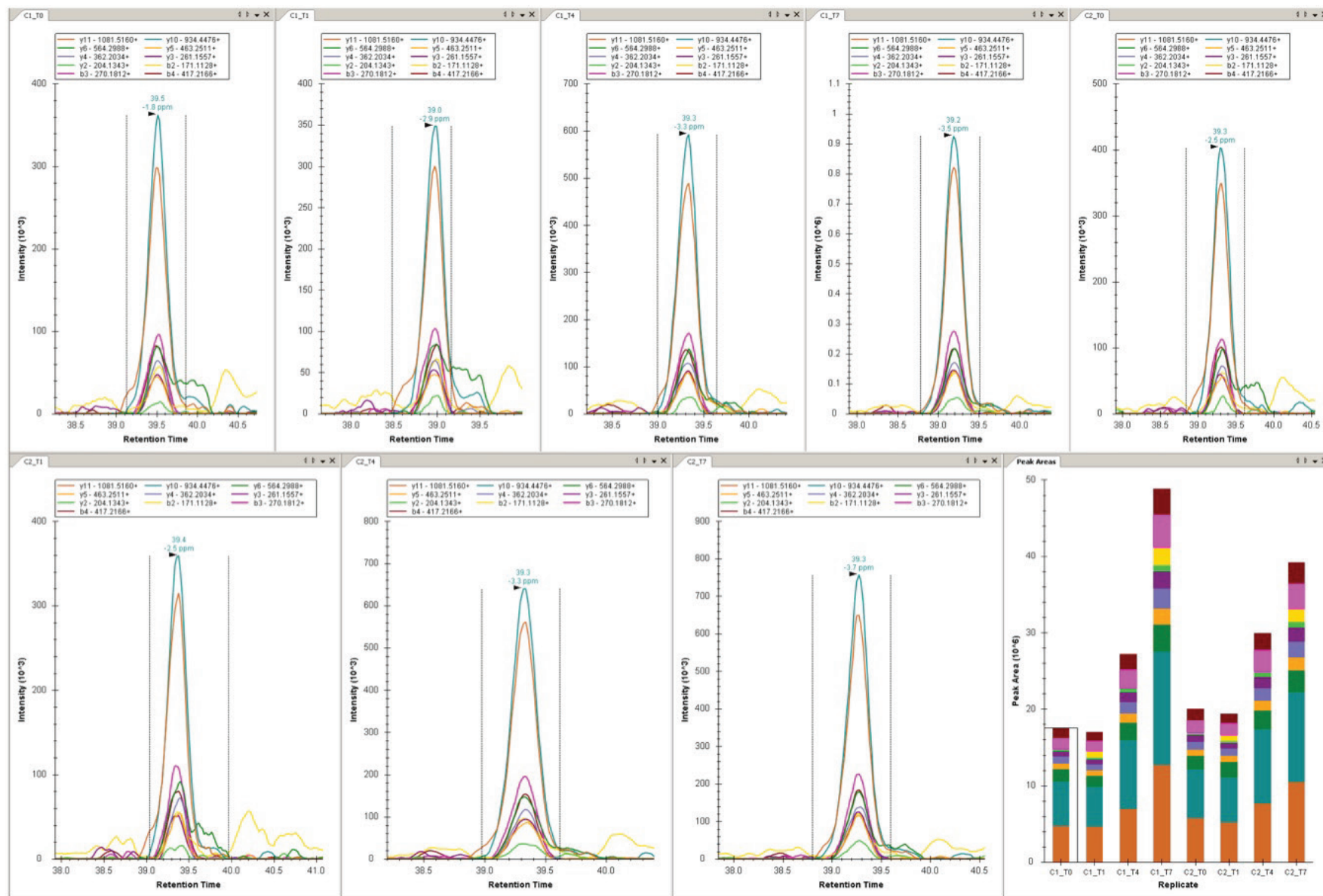
Replicate 1: Time 0

Replicate 1: Time 1hr

Replicate 1: Time 4hr

Replicate 1: Time 7hr

Replicate 2: Time 0



Replicate 2: Time 1hr

Replicate 2: Time 4hr

Replicate 2: Time 7hr

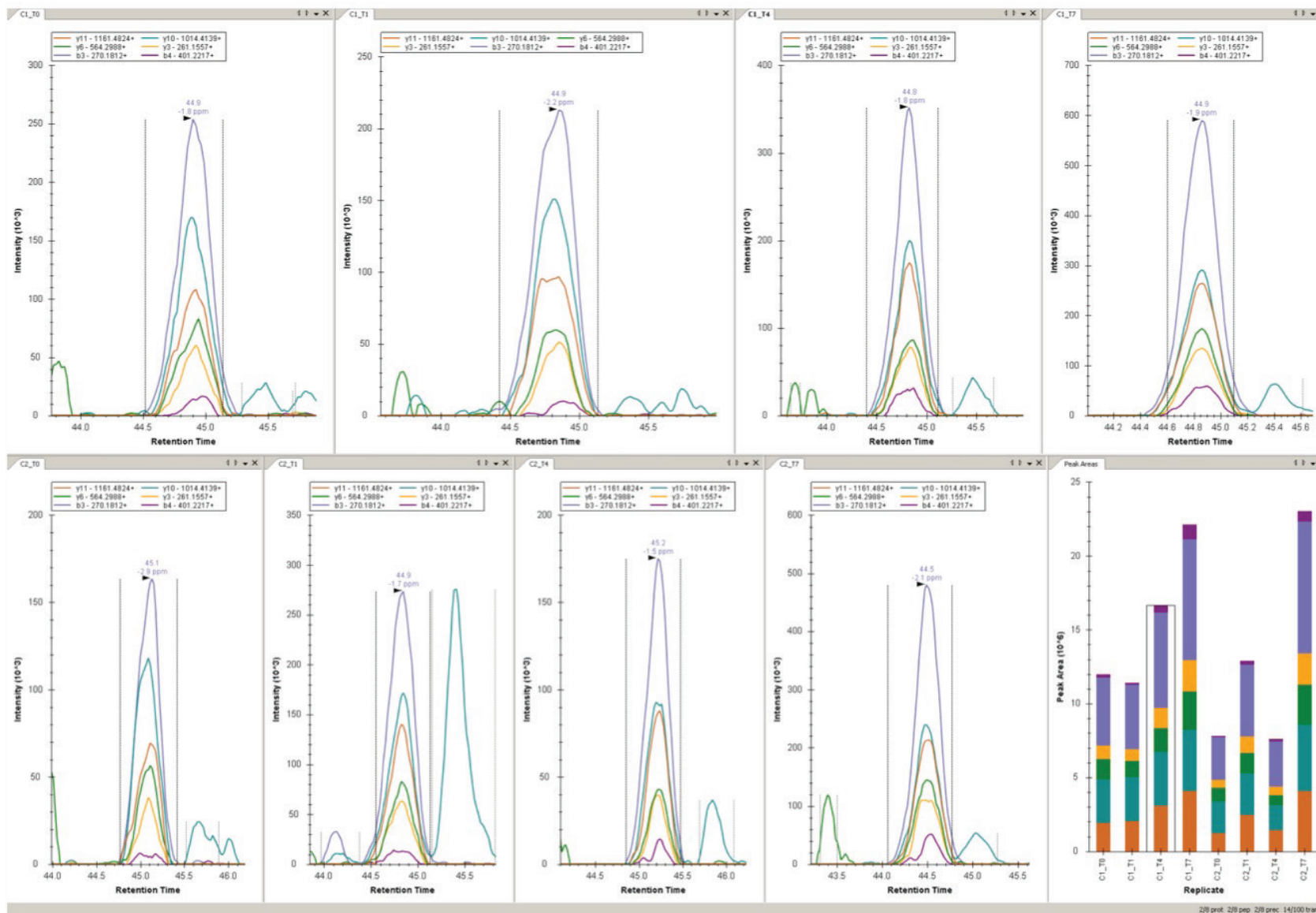
RecA (phospho): IGVMFGSPETTTGGK

Replicate 1: Time 0

Replicate 1: Time 1hr

Replicate 1: Time 4hr

Replicate 1: Time 7hr



Replicate 2: Time 0

Replicate 2: Time 1hr

Replicate 2: Time 4hr

Replicate 2: Time 7hr

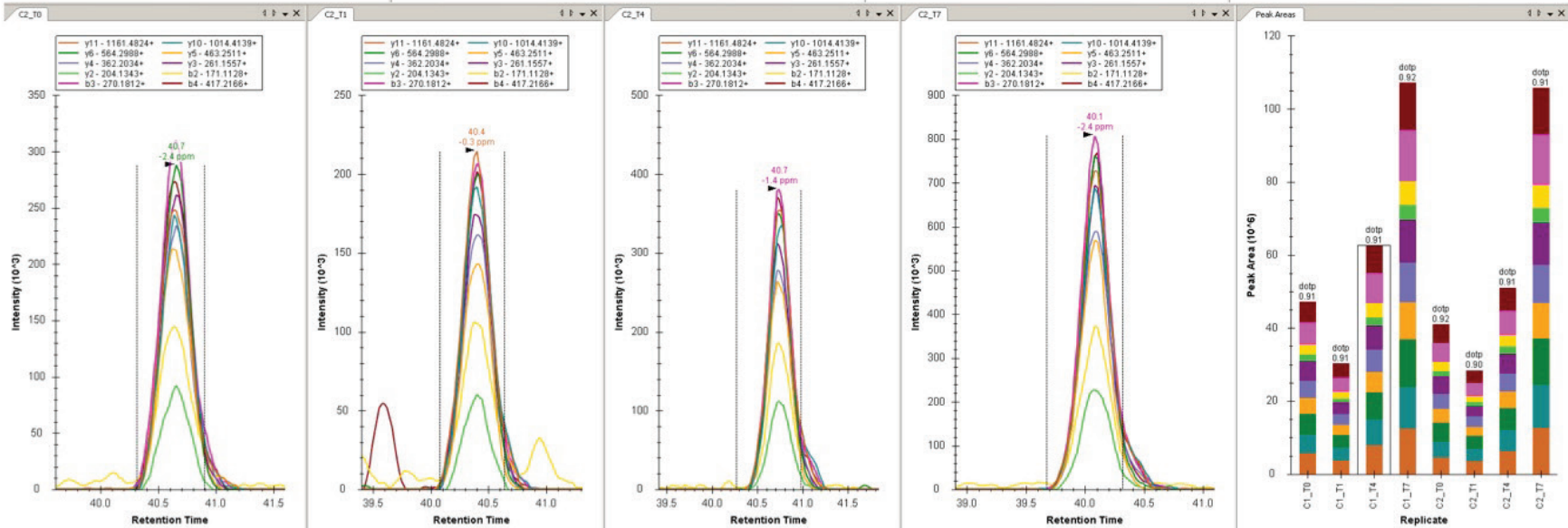
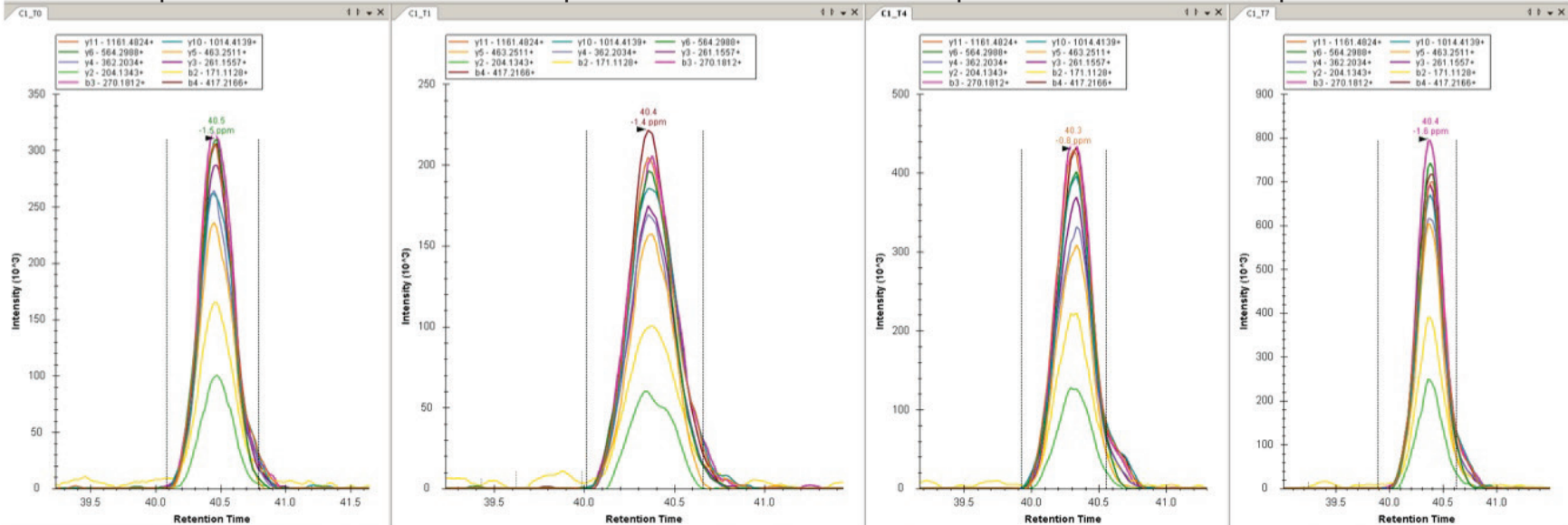
RecA (phospho): IGV**M**FGSPETTTGGK (Methionine oxidized)

Replicate 1: Time 0

Replicate 1: Time 1hr

Replicate 1: Time 4hr

Replicate 1: Time 7hr



Replicate 2: Time 0

Replicate 2: Time 1hr

Replicate 2: Time 4hr

Replicate 2: Time 7hr

1/8 prot. 1/8 pep. 1/8 prec. 1/100 tran